

IN THE CLAIMS:

Please amend the claims, as follows:

Claims 1-13 (cancelled).

Claim 14 (new): An injection moulding process for the injection into a mould of a single-phase solution of polymer and propellant which is prepared in a plasticising cylinder of an injection moulding machine, characterised in that upon opening of a guard device of the injection moulding machine by the person operating the machine the connection between the plasticising cylinder and the mould is interrupted and the maximum speed of displacement of the screw arranged in the plasticising cylinder is limited in a way that the force acting on the screw is reduced to such a degree that the pressure level in the plasticising cylinder is just sufficient to keep the single-phase solution of polymer and propellant gas prepared therein in the single-phase condition.

Claim 15 (new): An injection moulding process according to claim 14 characterised in that a mass pressure of between about 100 and 300 bars is maintained in the plasticising cylinder.

Claim 16 (new): An injection moulding process according to claim 14 characterised in that the speed of the screw is reduced to less than 1/10 of a maximum speed in the injection operation.

Claim 17 (new): An injection moulding process according to claim 14 characterised in that the maximum speed of the screw is reduced to zero if an end position

monitoring means does not signal the interruption in the connection between the plasticising cylinder and the mould.